

Applicant: Patrice Flaherty
Application No: 10/630,402
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IN THE CLAIMS

Please amend claims 1, 7 and 24 as follows. This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A device for collecting blood from and administering medical fluids to a patient, comprising:

a main tubing segment for conveying the blood and the medical fluids;

an indicator unit and an access port disposed in bidirectional fluid communication with said main tubing segment in branched relationship to each other at a tubing branch, said indicator unit adapted for indicating blood volume;

wherein said indicator unit has a fluid-sealed first end disposed in fluid communication with and proximate said main tubing segment, a second end ~~opposite~~ distal to said main tubing segment relative to said first end, an air flow pathway extending defined through said indicator unit between said first end and said second end and a bidirectional liquid flow pathway defined in coinciding relationship with said air flow pathway between said first end and said second end;

a clamp operably engaging said main tubing segment and adapted to selectively block and unblock flow of the fluids in both directions through said main tubing segment; and

at least one air-permeable and liquid-impermeable membrane provided at

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said second end of said indicator unit.

2. (Original) The device of claim 1 further comprising a blood volumeter provided in said indicator unit.

3. (Original) The device of claim 1 wherein said indicator unit is disposed in removable fluid communication with said main tubing segment.

4. (Original) The device of claim 3 further comprising a blood volumeter provided in said indicator unit.

5. (Previously presented) The device of claim 2 wherein said blood volumeter is a volumeter chamber.

6. (Original) The device of claim 5 wherein said indicator unit is disposed in removable fluid communication with said main tubing segment.

7. (Currently amended) A device for collecting blood from and administering medical fluids to a patient, comprising:

a main tubing segment for conveying the blood and the medical fluids;

a blood volumeter having a fluid-sealed first end disposed in fluid communication with and proximate said main tubing segment and a second end ~~opposite~~ distal to said main tubing segment relative to said first end and an access port disposed in fluid communication with said main tubing segment in branched relationship to said blood volumeter, said blood volumeter adapted for indicating blood volume and said blood volumeter and said access port defining branched bidirectional fluid flow pathways;

wherein an air flow pathway ~~extends~~ is defined through said blood volumeter between said first end and said second end and a bidirectional liquid flow pathway coincides with said air flow pathway between said first end and said second end;

a clamp operably engaging said main tubing segment and adapted to selectively block and unblock flow of the fluids in both directions through said main tubing segment; and

at least one air-permeable and liquid-impermeable membrane disposed in fluid communication with said blood volumeter at said second end of said blood volumeter and allowing bidirectional fluid movement between said blood volumeter and said access port.

8. (Canceled)

9. (Previously presented) The device of claim 7 wherein said blood volumeter is

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disposed in removable fluid communication with said main tubing segment.

10. (Previously presented) The device of claim 7 wherein said blood volumeter is a volumeter chamber.

11. (Original) The device of claim 10 wherein said indicator unit is disposed in removable fluid communication with said main tubing segment.

12. (Withdrawn) A device for collecting blood from and administering medical fluids to a patient, comprising:

a main tubing segment for conveying the blood and the medical fluids;

an indicator unit and a syringe port disposed in fluid communication with said main tubing segment in branched relationship to each other, said indicator unit adapted for indicating blood content;

a blood reservoir provided in fluid communication with said indicator unit;

and

a clamp operably engaging said main tubing segment for selectively blocking said main tubing segment.

13. (Withdrawn) The device of claim 12 further comprising a blood volumeter

provided in said indicator unit.

14. (Withdrawn) The device of claim 12 wherein said indicator unit is disposed in removable fluid communication with said main tubing segment.

15. (Withdrawn) The device of claim 13 wherein said blood volumeter is a spiral tubing volumeter, a folded tubing volumeter or a volumeter chamber.

16. (Withdrawn) The device of claim 12 further comprising a protective container provided in fluid communication with said indicator unit and wherein said blood reservoir is contained in said protective container.

17. (Withdrawn) A device for collecting blood from and administering medical fluids to a patient, comprising:

a main tubing segment for conveying the blood and the medical fluids;

an indicator unit and a first syringe port disposed in fluid communication with said main tubing segment in branched relationship to each other, said indicator unit adapted for indicating blood content;

a second syringe port provided in fluid communication with said indicator unit; and

a clamp operably engaging said main tubing segment for selectively blocking said main tubing segment.

18. (Withdrawn) The device of claim 17 further comprising a cap device for removably engaging and sealing said second syringe port and an air-permeable membrane carried by said cap device.

19. (Withdrawn) The device of claim 17 further comprising a blood volumeter provided in said indicator unit.

20. (Withdrawn) The device of claim 19 wherein said blood volumeter is a spiral tubing volumeter, a folded tubing volumeter or a volumeter chamber.

21. (Withdrawn) A device for collecting blood from and administering medical fluids to a patient, comprising:

a main tubing segment for conveying the blood and the medical fluids;

a syringe port provided in fluid communication with said main tubing segment;

an expandible blood receptacle for removably engaging said syringe port in fluid communication with said main tubing segment; and

a clamp operably engaging said main tubing segment for selectively blocking said main tubing segment.

22. (Withdrawn) The device of claim 21 further comprising a blood volumeter provided in fluid communication with said main tubing segment.

23. (Withdrawn) The device of claim 21 further comprising a second syringe port provided in fluid communication with said main tubing segment and wherein said syringe port and said second syringe port branch separately from said main tubing segment.

24. (Currently amended) A device for collecting blood from and administering medical fluids to a patient, comprising:

a main tubing segment for conveying the blood and the medical fluids;

~~a blood volumeter~~ an indicator unit having a fluid-sealed first end disposed in fluid communication with and proximate said main tubing segment, a second end ~~opposite~~ distal to said main tubing segment relative to said first end, an air flow pathway extending through said ~~blood volumeter~~ indicator unit between said first end and said second end and a bidirectional liquid flow pathway coinciding with said air flow pathway between said first end and said second end;

an access port disposed in bi-directional fluid communication with said

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main tubing segment in branched relationship to said main tubing segment and ~~each other~~
said indicator unit at a tubing branch, said indicator unit having a blood volumeter between
said first end and said second end of said indicator unit and adapted for indicating blood
volume and said indicator unit and said access port defining branched bi-directional fluid
flow pathways;

a clamp operably engaging said main tubing segment and adapted to block
and unblock flow of the fluids in both directions through said main tubing segment;

at least one air-permeable and liquid-impermeable membrane provided ~~in~~
~~fluid communication with said blood volumeter~~ at said second end of said ~~blood volumeter~~
indicator unit; and

wherein said at least one air-permeable and liquid-impermeable membrane
allows bidirectional fluid movement between and through said blood volumeter and said
access port.

25. (Previously presented) The device of claim 24 further comprising a connector
provided in fluid communication with said main tubing segment and wherein said indicator
unit is disposed in removable fluid communication with said connector.

26. (Previously presented) The device of claim 24 wherein said blood volumeter is
a volumeter chamber.

27. (Previously presented) The device of claim 24 further comprising a collector conduit provided in fluid communication with said main tubing segment and wherein said indicator unit is disposed in fluid communication with said collector conduit.

28. (Previously presented) The device of claim 27 wherein said indicator unit comprises a volumeter conduit provided in fluid communication with said collector conduit and wherein said blood volumeter is provided in fluid communication with said volumeter conduit.

29. (Previously presented) The device of claim 28 further comprising a port disposed between said collector conduit and said volumeter conduit.

30. (Previously presented) The device of claim 24 further comprising an access port tubing segment provided in fluid communication with said main tubing segment and wherein said access port is provided on said access port tubing segment.

31. (Previously presented) The device of claim 24 further comprising a connector provided in said main tubing segment between said clamp and said tubing branch.

32. (Previously presented) The device of claim 24 wherein said tubing branch comprises an

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access port leg and a collector tubing leg communicating with said main tubing segment and wherein said access port communicates with said access port leg and said indicator unit communicates with said collector tubing leg.